Turbo Decoding Method and Apparatus for Wireless Communications

Abstract

In a communication system 10, a method and apparatus provide for decoding a sequence of turbo encoded data symbols. The channel nodes R_x, R_y and R_z are updated based on a received channel output, and the outgoing messages from symbol nodes (701, 707, 708) are initialized. The symbol nodes symbol nodes (701, 707, 708) are in communication with the channel nodes R_x, R_y and R_z. Updates of computational nodes C (704) and D (706) at different time instances are performed in accordance with a triggering schedule.